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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/892,212	06/25/2001	Tony S. Kaushal	005231 ALRT/ETCH/DRIE	1445
32588	7590	01/23/2008	EXAMINER	
APPLIED MATERIALS, INC. P. O. BOX 450A SANTA CLARA, CA 95052			MCNEIL, JENNIFER C	
			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			01/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	09/892,212	KAUSHAL ET AL.
	Examiner	Art Unit
	Jennifer McNeil	1794

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 26 December 2007.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-4,7-20,24 and 26-44 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 1-4,7-19 and 30-44 is/are allowed.

6) Claim(s) 20,24,26-29 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application
Paper No(s)/Mail Date _____

3) Information Disclosure Statement(s) (PTO/SB/08) 6) Other: _____
Paper No(s)/Mail Date _____

DETAILED ACTION

The indicated allowability of claims 20, 24, 26-29 is withdrawn in view of the newly discovered reference(s) to Wang et al, and Chang et al. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 20, 24, 28, and 29 are rejected under 35 U.S.C. 102() as being anticipated by Wang et al (US 6,251,473). Wang teaches a ceramic thin film formed on a substrate. The ceramic thin film is formed by depositing a powder composition onto the substrate, followed by a sintering step. In Example 4, the substrate is comprised of YSZ or alumina, and the coating comprises YSZ. These materials are commensurate with the materials claimed and are therefore expected to have similar characteristics.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang et al (US 6,251,473) in view of Chang et al (US 6,805,952).

Wang teaches a method of forming ceramic thin films (yttria) by spray coating followed by sintering, as discussed above. Wang does not teach a pressing and sintering step for the film or a pressing step for making the substrate. Chang teaches a plasma chamber component comprising a substrate made of aluminum, alumina, silica, silicon carbide, AlN, SiN, or BN (col. 3). The substrate is coated with yttria (claim 3). Chang also teaches forming the substrate by any conventional ceramic manufacturing technique such as pressing and sintering. It would have been obvious to one of ordinary skill in the art at the time of the invention to form the substrate of Wang via the method taught by Chang, as both references are teaching the formation of ceramic substrates for processing chambers, and Chang discloses hot pressing and sintering as conventional techniques for ceramic manufacturing. Regarding dry processing and hot pressing of the coating, as Chang teaches that pressing is a well known processing technique for ceramic manufacture, application of this method to formation of the ceramic coatings is considered to be obvious to one of ordinary skill as pressing in general is a known densification process for ceramic processing.

Allowable Subject Matter

Claims 1-4, 7-19, 30-44 are allowed.

Response to Arguments

Applicant's amendments to the article claims have overcome the previous rejections of record. Newly discovered art has necessitated the new rejection under 103 as iterated above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer McNeil whose telephone number is 571-272-1540. The examiner can normally be reached on 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Jennifer McNeil
Primary Examiner
Art Unit 1794

JCM